

A B S T R A C T

A nonaqueous electrolyte secondary battery including a negative electrode containing a graphite material as the negative active material, a positive electrode containing lithium cobalt oxide as a main component of the positive active material and a nonaqueous electrolyte solution, the battery being characterized in that the lithium cobalt oxide contains a group IVA element and a group IIA element of the periodic table, the nonaqueous electrolyte solution contains 0.2 - 1.5 % by weight of a sulfonyl-containing compound and preferably further contains 0.5 - 4 % by weight of vinylene carbonate.